



V68 IPE Brushless DC Motor Drone

Our Product Introduction

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Basic Information

- Place of Origin: Guangdong, China
- Brand Name: GS
- Model Number: V68 230KV
- Price: Negotiable
- Delivery Time: 6-8
- Payment Terms: T/T
- Supply Ability: 100



Product Specification

- Motor Model: V68 IPE V1.0
- Motor Size: D:72x39.5 Mm
- Propeller Mounting Holes: D:12 M3x4, 18 M3x4, 22 M3x4
- Shaft Diameter: IN: 12 Mm
- Bearing: 6801ZZ*2
- Cable Length: 80mm 16# Awg(Black)silicone
- Rotor Balance: ≤ 5 Mg
- Motor Balance: ≤ 10 Mg
- Motor Mounting Holes: D:25 M3x4, D:30 M4x4
- Disruptive Test: 500 V
- Highlight: Drone Brushless DC Motor,
V68 IPE Brushless DC Motor



More Images



Product Description

V68 IPE Brushless DC Motor Drone

Product Specifications

Attribute	Value
Motor Model	V68 IPE V1.0
Motor Size	D:72x39.5 mm
Propeller Mounting Holes	D:12 M3x4, 18 M3x4, 22 M3x4
Shaft Diameter	IN: 12 mm
Bearing	6801ZZ*2
Cable Length	80mm 16# Awg(Black)silicone
Rotor Balance	≤5 mg
Motor Balance	≤10 mg
Motor Mounting Holes	D:25 M3x4, D:30 M4x4
Disruptive test	500 V

Product Description

Designed to carry payloads of 5-6.5kg per rotor with max thrust up to 13.9kg per rotor, this high-performance brushless DC motor weighs only 378g. Engineered for professional industrial VTOL fixed-wing UAS with 15-20kg MTOW, it works optimally with large-pitch VTOL CF propellers to deliver high load capacity, exceptional efficiency, and reliable performance for endurance flights.

RPMNV 230KV

Nominal Voltage 12S lipo battery

No Load Current 2.1A/20V

Internal resistance 30.5mΩ

Motor Weight 378 g

Product Boxed Weight 548g (110 x110 x 55 mm)

Maximum Current 85 A

Maximum Power 3894W

Maximum thrust 13.9 kg

Maximum Torque 3.78 Nm

Recommended EsC AMPX 80A (5-14S)

Recommended Propellers 22x6.6, 22.1x7.4

M6V68

ENERGY EFFICIENT 230KV
INDUSTRY PROFESSIONAL EDITION

5.0~7.0 kgf

RECOMMENDED
HOVER THRUST

13.9 kgf



MAXIMUM
THRUST

MAXIMUM THRUST MAY DEPEND ON
BATTERY LEVEL, PROPELLER TYPE,
AIR PRESSURE AND OTHER CONDITIONS.

OPTIMIZED
WEIGHT

378g

EFFICIENCY >80%

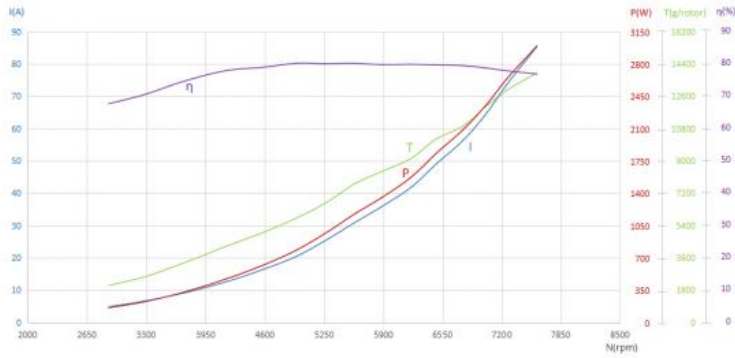


MAD V68 IPE 230KV CF FLUXER 22.1x7.4 VTOL AMPX 80A (5-14S)

12S MAX
HOT

Analytical Graph of Motor Operation

I – Current, P – Input Power, η – Electrical Efficiency, T – Thrust, N – Rotational Speed
The data above was measured with an input voltage of 48 V, at a temperature of 25°C and sea level. The rotational speed was adjusted by the throttle.

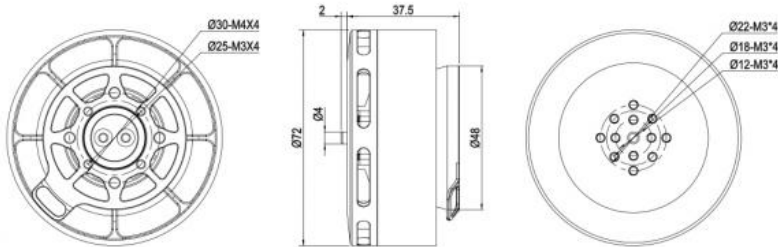


Motor Data

Motor Model	MAD V68 IPE V1.0	Number of pole pairs	14
Stator	TAIWAN / Anticorrosive	Varnished wire Degree	150°C
Motor Size	D:72 × 39.5 mm	Magnet Degree	150°C
Degree of Protection	IP35	Cable Length	80mm 16# Awg(Black) silicone
Centrifugal Heat Dissipation	YES	Rotor Balance	≤5 mg
Propeller Mounting Holes	D:12 M3×4, D:18 M3×4, D:22 M3×4	Motor Balance	≤10 mg
Shaft Diameter	IN: 12 mm	Motor Mounting Holes	D:25 M3×4, D:30 M4×4
Bearing	EZO 6801ZZ*2	Disruptive test	500 V
Additional Accessories	M6 Prop Adapter *1, M6 Propeller Plate *1, Ø4-6 Adapter Ring *1, 3.5mm Bullet Connector*3, Heat Shrinkable Tube*3, M3*10mm *4 Motor Screws, M4*10mm *4 Motor Screws M3*6mm *4 Prop Adapter Fixing Screws, M3*12mm *4 Propeller Screws, Sticker*2		

Specifications

RPM/V	230KV	Nominal Voltage	12S lipo battery
No Load Current	2.1A / 20V	Internal resistance	30.5mΩ
Motor Weight	378 g	Product Boxed Weight	548g (110 x 110 x 55 mm)
Maximum Current	85 A	Maximum Power	3894W
Maximum thrust	13.9 kg	Maximum Torque	3.78 Nm
Recommended ESC	MAD AMPX 80A (5-14S)	Recommended Propellers	22x6.6, 22.1x7.4
UAV take-off weight	12S-22.1' 23kg--Quadcopter 34.5kg--Hexacopter 46kg--Octocopter	Single rotor take-off weight	5kg ~7kg



MAD V68 IPE 230KV FLUXER PRO 22x6.6 MATT AMPX 80A (5-14S)

12S MAX HOT

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [g]	Efficiency [%]	Efficiency [g/f/W]
30	48.23	4.25	205.0	134.2	0.436	2939	1814	65.5	8.9
35	48.18	5.89	283.8	197.3	0.559	3370	2352	69.5	8.3
40	48.1	8.32	400.2	300.5	0.746	3847	3116	75.1	7.8
45	48.01	11.34	544.4	423.9	0.938	4315	3912	77.9	7.2
50	47.92	14.48	693.9	553.7	1.115	4742	4683	79.8	6.7
55	47.82	17.8	851.2	684.7	1.281	5104	5235	80.4	6.1
60	47.69	21.95	1046.8	844.6	1.484	5435	5995	80.7	5.7
65	47.55	26.49	1259.6	1023.9	1.696	5765	6879	81.3	5.5
70	47.4	31.44	1490.3	1214.6	1.902	6098	7598	81.5	5.1
75	47.21	36.99	1746.3	1431.8	2.131	6416	8459	82	4.8
80	47.05	42.48	1998.7	1631.1	2.313	6734	9146	81.6	4.6
85	46.82	49.44	2314.8	1885.5	2.559	7036	10094	81.5	4.4
90	46.6	56.26	2621.7	2123.6	2.767	7329	11023	81	4.2
95	46.35	63.96	2964.5	2377.6	2.989	7596	11815	80.2	4.0
100	45.98	74.91	3444.4	2741.8	3.295	7946	12826	79.6	3.7

MAD V68 IPE 230KV CF FLUXER 22.1x7.4 VTOL AMPX 80A (5-14S)

12S MAX HOT

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [g]	Efficiency [%]	Efficiency [g/f/W]
30	48.21	4.88	235.3	159.2	0.526	2890	2064	67.7	8.8
35	48.16	6.61	318.3	224.4	0.654	3277	2530	70.5	7.9
40	48.08	9.17	440.9	329.5	0.846	3719	3333	74.7	7.6
45	47.98	12.67	607.9	474.3	1.082	4186	4257	78	7.0
50	47.86	16.47	788.3	623.1	1.297	4588	5022	79	6.4

55	47.73	20.52	979.4	785.5	1.515	4951	5821	80.2	5.9
60	47.58	25.56	1216.1	973.7	1.762	5277	6683	80.1	5.5
65	47.41	31.01	1470.2	1179.6	2.014	5593	7745	80.2	5.3
70	47.25	35.89	1695.8	1353.3	2.196	5885	8409	79.8	5.0
75	47.07	41.82	1968.5	1573.1	2.421	6205	9138	79.9	4.6
80	46.84	48.94	2292.3	1827.3	2.694	6477	10205	79.7	4.5
85	46.6	56.22	2619.9	2083.9	2.939	6771	10932	79.5	4.2
90	46.33	64.19	2973.9	2342.9	3.188	7018	11993	78.8	4.0
95	46.02	73.61	3387.5	2638.2	3.472	7256	12939	77.9	3.8
100	45.62	85.35	3893.7	2995.7	3.771	7586	13908	76.9	3.6

The above data are the theoretical values when the input voltage is 48V, for reference only. In the case of room temperature of 25°C and no additional cooling device, the current over 85A is non-working zone. 31-85A is short-term (about 10-30s) working zone, and below 31A is sustainable working zone. In actual use, please control the motor running time according to the working environment temperature and heat dissipation conditions.

Our Services

- 1 Year Warranty included for worry-free purchase
- 14-day return policy for refunds or replacements (contact required before return)
- 3-month defective item replacement with no extra charge
- Post-3-month defective item replacement available (customer covers return shipping)



Frequently Asked Questions

Q1: Do you support OEM/ODM?

A1: Yes, we offer custom logo printing services.

Q2: About samples

A2: Standard samples ready in 7 days; OEM/ODM samples in 10-20 days (sample and shipping fees apply).

Q3: What is the delivery time?

A3: Regular orders ship in 15 days; OEM/ODM in 25-45 days (quantity dependent). We notify promptly of any delays.

Q4: What is the minimum order quantity?

A4: No MOQ - wholesale orders accepted from 1 piece, including OEM/ODM.

Q5: What are your payment terms?

A5: We accept L/C or 100% TT payments.

Q6: Can you reduce the shipping cost?

A6: We always select the most economical and secure shipping option available.

Q7: Return policy

A7: Replacement requests must be made within 7 days of receipt. Items must be in original condition with return shipping at customer's expense.



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